

Title (en)

METHODS AND USES OF INTRODUCING MUTATIONS INTO GENETIC MATERIAL FOR GENOME ASSEMBLY

Title (de)

VERFAHREN UND VERWENDUNGEN ZUR EINFÜHRUNG VON MUTATIONEN IN GENETISCHES MATERIAL ZUR GENOMANORDNUNG

Title (fr)

PROCÉDÉS ET UTILISATIONS D'INTRODUCTION DE MUTATIONS DANS UN MATÉRIAU GÉNÉTIQUE POUR L'ASSEMBLAGE DU GÉNOME

Publication

**EP 4343770 A3 20240529 (EN)**

Application

**EP 23212215 A 20191028**

Priority

- US 201862751469 P 20181026
- EP 19875314 A 20191028
- US 2019058379 W 20191028

Abstract (en)

Methods of sequencing and assembling a nucleic acid sequence from a nucleic acid sample containing repetitive or low-information regions, which are typically difficult to sequence and/or assemble are provided. The methods of sequencing and assembling introduce mutations into the sample to increase sequence diversity between various repetitive regions present in the nucleic acid sample. This sequence diversity allows various segments to assemble independently of different, but similar sequences present in the nucleic acid sample.

IPC 8 full level

**C12Q 1/6827** (2018.01); **C12Q 1/6869** (2018.01); **G16B 30/20** (2019.01)

CPC (source: EP US)

**C12N 15/102** (2013.01 - EP US); **C12N 15/1031** (2013.01 - EP US); **C12Q 1/6874** (2013.01 - US)

C-Set (source: EP US)

**C12N 15/1031 + C12Q 2531/119**

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2020087076 A1 20200430; WO 2020087076 A8 20200611; WO 2020087076 A9 20200709;** AU 2019366472 A1 20210527; CA 3117661 A1 20200430; EP 3870718 A1 20210901; EP 3870718 A4 20220713; EP 3870718 B1 20231129; EP 4343770 A2 20240327; EP 4343770 A3 20240529; US 11155806 B2 20211026; US 2020140848 A1 20200507; US 2022170007 A1 20220602

DOCDB simple family (application)

**US 2019058379 W 20191028;** AU 2019366472 A 20191028; CA 3117661 A 20191028; EP 19875314 A 20191028; EP 23212215 A 20191028; US 201916666187 A 20191028; US 202117471084 A 20210909